

Application No. 10/071,560
Response dated May 2, 2005
Reply to Office Action of April 4, 2005

Listing of the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

CLAIMS:

1. (Original) A method, comprising:

specifying a desired first endpoint and a desired second endpoint for a desired track log;

assigning an actual first endpoint for the track log based on the desired first endpoint and a set of track log points, and an actual second endpoint for the track log based on the desired second endpoint and the set of track log points; and

identifying the desired track log using the actual first endpoint, the actual second endpoint, and at least one track log point,

wherein at least one of the desired first endpoint and the desired second endpoint is capable of being specified by specifying a location.

2. (Original) The method of claim 1, further comprising validating the desired first endpoint and the desired second endpoint.

Application No. 10/071,560
Response dated May 2, 2005
Reply to Office Action of April 4, 2005

3. (Original) The method of claim 1, further comprising filtering track log points for the desired track log extending between the actual first endpoint and the actual second endpoint.

4. (Original) The method of claim 1, wherein assigning an actual first endpoint for the track log based on the desired first endpoint and a set of track log points, and an actual second endpoint for the track log based on the desired second endpoint and the set of track log points includes:

searching for a nearest track log point that is located closest to at least one of the desired first endpoint and the desired second endpoint that is capable of being specified by specifying a location;
identifying a time associated with the nearest track log point; and
finding an index of the nearest track log point in a time range.

5. (Original) The method of claim 1, further comprising selecting a method for specifying a location for at least one of the desired first endpoint and the desired second endpoint, wherein the selected method for specifying the location is capable of being used to specify the location for at least one of the desired first end point and the desired second endpoint.

Application No. 10/071,560
Response dated May 2, 2005
Reply to Office Action of April 4, 2005

6. (Original) The method of claim 5, wherein selecting a method for specifying a location includes manually entering a location.
7. (Original) The method of claim 5, wherein selecting a method for specifying a location includes specifying a location using a map feature.
8. (Original) The method of claim 5, wherein selecting a method for specifying a location includes specifying a location using an address.
9. (Original) The method of claim 5, wherein selecting a method for specifying a location includes specifying a location using a waypoint.

Application No. 10/071,560
Response dated May 2, 2005
Reply to Office Action of April 4, 2005

10. (Original) A method for selecting a track log from a set of track log points, comprising:

selecting a method for specifying a time of at least one track log endpoint from a choice among:

a method for specifying a location and extracting a time from the specified location, and

at least one other method for specifying the time of at least one track log endpoint;

specifying desired endpoints for a desired track log using one or more of the selected methods for specifying a time of at least one track log endpoint; assigning actual endpoints for the track log based on a time for the desired endpoints and a set of track log points; and

identifying the desired track log using the actual endpoints and at least one track log point from the set of track log points.

11. (Original) The method of claim 10, wherein at least one other method for specifying the time of at least one track log endpoint includes selecting a track log endpoint from a list of track log points that are associated with a time.

Application No. 10/071,560
Response dated May 2, 2005
Reply to Office Action of April 4, 2005

12. (Original) The method of claim 10, wherein at least one other method for specifying the time of at least one track log endpoint includes entering a time that is used to identify the at least one track log endpoint.
13. (Original) The method of claim 10, wherein assigning actual endpoints for the track log based on a time for the desired endpoints and a set of track log points includes:
 - searching for a nearest track log point that is located closest to at least one of the desired endpoints;
 - identifying a time associated with the nearest track log point; and
 - finding an index of nearest track log point in a time range.
14. (Original) A computer-readable medium having computer-executable instructions adapted to:
 - receive desired endpoints for a desired track log;
 - assign actual endpoints for the track log based on the desired endpoints and a set of track log points; and
 - identify the desired track log using the actual endpoints and at least one track log point,wherein at least one of the desired endpoints is capable of being specified by location.

Application No. 10/071,560
Response dated May 2, 2005
Reply to Office Action of April 4, 2005

15. (Original) The computer-readable medium of claim 14, wherein the at least one of the desired endpoints that is capable of being specified by location is capable of being specified by a time associated with the location.

16. (Original) The computer-readable medium of claim 14, wherein the at least one of the desired endpoints that is capable of being specified by location is capable of being specified using a manually-entered location.

17. (Original) The computer-readable medium of claim 14, wherein the at least one of the desired endpoints that is capable of being specified by location is capable of being specified using a map feature.

18. (Original) The computer-readable medium of claim 14, wherein the at least one of the desired endpoints that is capable of being specified by location is capable of being specified using an address.

19. (Original) The computer-readable medium of claim 14, wherein the at least one of the desired endpoints that is capable of being specified by location is capable of being specified using a waypoint.

Application No. 10/071,560
Response dated May 2, 2005
Reply to Office Action of April 4, 2005

20. (Original) The computer-readable medium of claim 14, wherein the computer-executable instructions are further adapted to validate the desired endpoints.

21. (Original) The computer-readable medium of claim 14, wherein the computer-executable instructions adapted to identify the desired track log using the actual endpoints and at least one track log point include computer-readable instructions adapted to filter track log points for a path extending between the actual first endpoint and the actual second endpoint.

22. (Original) A navigational aid device, comprising:
a processor; and
a memory adapted to communicate to the processor,
wherein the memory includes a set of track log points,
wherein the device is adapted to select a desired track log based on a first user-specified desired endpoint and a second user-specified desired endpoint,
and
wherein at least one of the first and second user-specified endpoints is capable of being selected by a user-specified location.

23. (Original) The device of claim 22, wherein the device includes a portable device.

Application No. 10/071,560
Response dated May 2, 2005
Reply to Office Action of April 4, 2005

24. (Original) The device of claim 22, wherein the device includes a cellular phone.
25. (Original) The device of claim 22, wherein the device includes a Global Positioning System (GPS) receiver device.
26. (Original) The device of claim 22, wherein the device includes a Personal Digital Assistant (PDA).
27. (Original) The device of claim 22, wherein at least one of the first and second user-specified endpoints is capable of being selected by manually entering a location.
28. (Original) The device of claim 22, wherein at least one of the first and second user-specified endpoints is capable of being selected by using a map feature.
29. (Original) The device of claim 22, wherein at least one of the first and second user-specified endpoints is capable of being selected by using an address.
30. (Original) The device of claim 22, wherein at least one of the first and second user-specified endpoints is capable of being selected by using a waypoint.

Application No. 10/071,560
Response dated May 2, 2005
Reply to Office Action of April 4, 2005

31. (Original) A navigational aid device, comprising:
- a processor; and
- a memory adapted to communicate to the processor,
- wherein the memory includes a set of track log points,
- wherein the device is adapted to:
- determine a user-selected method for specifying a time of at least one track log endpoint from a choice among: a method for specifying a location and extracting a time from the specified location, and at least one other method for specifying the time of at least one track log endpoint;
- receive user-specified desired endpoints for a desired track log using one or more of the methods for specifying a time of at least one track log endpoint;
- assign actual endpoints for the track log based on a time for the desired endpoints and a set of track log points; and
- identify the desired track log using the actual endpoints and at least one track log point from the set of track log points.
32. (Original) The device of claim 31, wherein the navigational aid device includes a portable navigational aid device.

Application No. 10/071,560
Response dated May 2, 2005
Reply to Office Action of April 4, 2005

33. (Original) The device of claim 31, wherein the navigational aid device includes a wireless communication device.

34. (Original) The device of claim 31, wherein the navigational aid device includes a Global Positioning System (GPS) receiver device.

35. (Original) The device of claim 31, wherein the navigational aid device includes a Personal Digital Assistant (PDA).

36. (Original) The device of claim 31, wherein:
the device is further adapted to display a list of track log points that are associated with a time, and
the at least one other method for specifying the time of at least one track log endpoint includes selecting a track log endpoint from the list of track log points.

37. (Original) The device of claim 31, wherein:
the device is further adapted to display a data entry screen for entering time; and
the at least one other method for specifying the time of at least one track log endpoint includes entering a time that is to be associated with the at least one track log endpoint.

Application No. 10/071,560
Response dated May 2, 2005
Reply to Office Action of April 4, 2005

38. (Original) The device of claim 31, wherein the device is further adapted to:
search for a nearest track log point that is located closest to at least one of the
desired endpoints that is specified by a location;
identify a time associated with the nearest track log point; and
find an index of the nearest track log point in a time range.

Application No. 10/071,560
Response dated May 2, 2005
Reply to Office Action of April 4, 2005

39. (Original) A system, comprising:

a mass data storage adapted to store navigation data, including at least one set of

travel log points;

a server adapted to communicate with the mass data storage; and

a navigational aid device adapted to communicate with the server via a communication channel, such that the navigational aid device is capable of storing information on and retrieving information from the mass data storage;

wherein the device is adapted to be transported,

wherein the system is adapted to:

receive desired endpoints for a desired track log;

assign actual endpoints for the track log based on the desired endpoints and a set of track log points; and

identify the desired track log using the actual endpoints and at least one track log point,

wherein at least one of the desired endpoints is capable of being specified by location.

40. (Original) The navigation system of claim 39, wherein the communication channel includes a wireless channel.

Application No. 10/071,560
Response dated May 2, 2005
Reply to Office Action of April 4, 2005

41. (Original) The navigation system of claim 39, wherein the server includes a remote server.

42. (Original) The navigation system of claim 39, wherein the server includes a processor adapted to respond to a request from the navigational aid device by performing calculations on the navigation data and transmitting the results to the navigational aid device.

43. (Original) The navigation system of claim 39, wherein the navigational aid device is adapted to communicate with and retrieve navigation data from the server using streaming data.

44. (Original) The navigation system of claim 39, wherein the navigational aid device is adapted to communicate with and retrieve navigation data from the server using cellular communications technology.

45. (Original) The navigation system of claim 39, wherein:
the navigational aid device includes a processor in communication with a memory
and a display; and
the processor and the memory of the navigational aid device are adapted to
cooperate to display the desired track log on the display.